

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NUMBER UPN-4566
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. 10/4538361 37 CFR 1.5
INTERNATIONAL APPLICATION NO. PCT/US2003/039714	INTERNATIONAL FILING DATE 12 December 2003 (12.12.2003)	PRIORITY DATE CLAIMED 13 December 2002 (13.12.2002)
TITLE OF INVENTION PRACTICAL PULSE SYNTHESIS VIA THE DISCRETE INVERSE SCATTERING TRANSFORM		
APPLICANT(S) FOR DO/EO/US Charles L. EPSTEIN and Jeremy MAGLAND		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1.	<input checked="" type="checkbox"/>	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2.	<input type="checkbox"/>	This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3.	<input checked="" type="checkbox"/>	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9), and (21) indicated below.
4.	<input checked="" type="checkbox"/>	The US has been elected (Article 31).
5.	<input checked="" type="checkbox"/>	A copy of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).
6.	<input type="checkbox"/>	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).
7.	<input checked="" type="checkbox"/>	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made.
8.	<input type="checkbox"/>	An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.	<input checked="" type="checkbox"/>	An oath or declaration of the inventor(s) 35 U.S.C. 371(c)(4). (unexecuted)
10.	<input type="checkbox"/>	An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
Items 11. to 20. below concern other document(s) or information included:		
11.	<input checked="" type="checkbox"/>	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12.	<input type="checkbox"/>	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.	<input checked="" type="checkbox"/>	A preliminary amendment.
14.	<input checked="" type="checkbox"/>	An Application Data Sheet under 37 CFR 1.76.
15.	<input type="checkbox"/>	A substitute specification.
16.	<input type="checkbox"/>	A power of attorney and/or change of address letter.
17.	<input type="checkbox"/>	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.182-1.825.
18.	<input type="checkbox"/>	A second copy of the published international application under 35 U.S.C. 154(d)(4).
19.	<input type="checkbox"/>	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20.	<input checked="" type="checkbox"/>	Other items or information: - a copy of Form PCT/IB/308 (Notice Informing the Applicant of the Communication of the International Application to the Designated Offices); - a copy of the International Search Report; - a return postcard.
EV482611515US		
EXPRESS MAIL Mailing Label No. EV 482611515 US Date of Deposit: June 13, 2005		

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U.S. APPLICATION NO. (if known 37 C.F.R. 1.5)	INTERNATIONAL APPLICATION NO. PCT/US2003/039714			ATTORNEY DOCKET NUMBER UPN-4566
The following fees are submitted:				
21. <input checked="" type="checkbox"/> Basic national fee \$300.00				
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) \$100.00 All other situations \$200.00				
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the International application to the USPTO as an International Searching Authority \$100.00 International Search Report prepared and provided to the Office \$400.00 All other situations \$500.00				
TOTAL of 21, 22 and 23 = \$600.00				
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	
69- 100 =	0/50=		X \$250.00	\$ 0
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				
Claims	Number Filed	Number Extra	Rate	
Total claims	29- 20 =	9	X \$50.00	\$450.00
Independent Claims	4- 3 =	1	X \$200.00	\$200.00
Multiple dependent claims(s) (if applicable) + \$360.00				
TOTAL OF ABOVE CALCULATIONS = \$1,250.00				
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				
SUBTOTAL = \$625.00				
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +				
TOTAL NATIONAL FEE = \$625.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				
TOTAL FEES ENCLOSED = \$625.00				
<input type="checkbox"/> Amount to be: <input type="checkbox"/> refunded <input type="checkbox"/> charged \$				

- a. A check in the amount of \$625.00 to cover the above fee is enclosed.
- b. Please charge my Deposit Account No. 23-3050 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. The Commissioner if hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3050. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

John W. Caldwell
Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
(215) 568-3100


SIGNATURE

Michael P.Dunnam
NAME

32,611
REGISTRATION NUMBER